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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/651,620	08/30/2000	Eugene P. Marsh	4218US (99-0796)	1130
75	05/04/2004		EXAMINER	
Joseph A Walkowski			VU, HUNG K	
TRASK BRITT P O Box 2550			ART UNIT	PAPER NUMBER
Salt Lake City,	UT 84110		2811	<u></u>
			DATE MAILED: 05/04/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	<i>J</i>			
Office Action Commence	09/651,620	EUGENE P. MARSH				
Office Action Summary	Examiner	Art Unit				
	Hung K. Vu	2811				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 Clafter SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days,  - If NO period for reply is specified above, the maximum statutory properties of the second state of the	ON. FR 1.136(a). In no event, however, may on. a reply within the statutory minimum of the period will apply and will expire SIX (6) Mostatute, cause the application to become	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).	ion.			
Status						
1) Responsive to communication(s) filed on	18 February 2004.					
·— ·						
3) Since this application is in condition for all	· · · · · · · · · · · · · · · · · · ·					
Disposition of Claims						
4) ⊠ Claim(s) 10-20 and 59-66 is/are pending it 4a) Of the above claim(s) is/are with 5) ⊠ Claim(s) 59-66 is/are allowed. 6) ⊠ Claim(s) 10 and 14-20 is/are rejected. 7) ⊠ Claim(s) 11-13 is/are objected to. 8) □ Claim(s) are subject to restriction as	hdrawn from consideration.					
Application Papers						
9) The specification is objected to by the Exa 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the content of the con	accepted or b) objected to the drawing(s) be held in abey correction is required if the drawing	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121				
11) The oath or declaration is objected to by the	ne Examiner. Note the attach	ed Office Action of form PTO-132.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of:  1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in priority documents have been ureau (PCT Rule 17.2(a)).	Application No en received in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-94  3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 05/06/03,11/12/03.	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152)				

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#### **DETAILED ACTION**

## Response to Amendment

1. The indicated allowability of claims 10-14 and 16-18 is withdrawn in view of the newly discovered reference(s) to copending Application No. 10/215,991. Rejections based on the newly cited reference(s) follow.

#### **Double Patenting**

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 10 and 14-20 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 6-11 and 13 of copending Application No. 10/215,991. Although the conflicting claims are not identical, they are not patentably distinct from each other because the recited limitations of claims 10 and 14-20 are similar to the recited limitations of claims 6-11 and 13 of copending Application No. 10/215,991.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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## Allowable Subject Matter

- 3. Claims 11-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Claims 59 66 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

Applicant's claims 11 - 13 and 59 - 66 are allowable over the references of record because none of these references disclose or can be combined to yield the claimed method for formig a semiconductor device structure comprising forming the layer of ruthenium includes depositing the layer of ruthenium by chemical vapor deposition or atomic layer deposition, as recited in claims 11 and 12 in combination with the remaining claimed limitations.

# Response to Arguments

6. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

# Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung K. Vu whose telephone number is (571) 272-1666. The examiner can normally be reached on Mon-Thurs 6:00-3:30, alternate Friday 7:00-3:30, Eastern Time.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on (571) 272-1732. The Central Fax Number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Vu

April 19, 2004

Hung Vu

Patent Examiner